

FEB 1952

## CENTRAL INTELLIGENCE AGENCY

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SECURITY INFORMATION

## INFORMATION REPORT

REPORT NO. 

25X1

CD NO.

COUNTRY East Germany

DATE DISTR. 9 October 1952

SUBJECT Development of High Frequency Transmitter at the  
25X1 Oberspreewerk

NO. OF PAGES 2

NO. OF ENCLS.  
(LISTED BELOW)SUPPLEMENT TO  
REPORT NO.

25X1

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1. In March, 1952, the transmitter development and construction department of the Werk für Fernmeldewesen "HF" (Oberspreewerk), Berlin-Oberschoneweide, Ostendstr. 1-5, was working on the development of a sound transmitter (Tonsender) Type HF 2892a for the Oberspreewerk 100 W experimental television transmitter.
2. The sound transmitter Type HF 2982a for the experimental television transmitter FS 1 serves to transmit, on a frequency of 105.4 megacycles, the coordinated sound for the picture transmitter HF 2765. It is a frequency modulation transmitter with a variation of plus or minus 50 kilocycles with 100 percent modulation and an output up to 100 watts over a 70-ohm coaxial cable to the sound-transmitter connection of the television antenna.
3. Brief technical data on the HF 2829a transmitter:
  - Frequency: 105.4 megacycles
  - Frequency constant: plus or minus  $5 \cdot 10^{-5}$
  - Frequency variation with 100 percent modulation: plus or minus 50 kilocycles
  - Power on 70-ohm cable to the antenna: up to 100 watts
  - Type of modulation: frequency modulation with reactance tube (Hubroehre)
  - Low-frequency power input: 20 milliwatts at 600 ohms (medium)

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Frequency deviation      according to standard curve 1:6  
(Frequenzanhebung):      (time constant 50 micro-seconds)

Output impedance:      knoz. (sic) cable 70 ohms

Current supply:      Line connection 2 x 220 volts, 50 cycles

Power input required: approximately 1.5 kilowatts

Weight: 400 kilograms

Dimensions: 200 cm. high; 70 cm. wide; 80 cm. deep.

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